

March 15, 2010

Duke Energy Miami Fort Generating Station 11021 Brower Road North Bend, OH 45052

Attention: Ms. Sue Wallace

Chemical Engineer

Re: Results - March 2010

Low-Level Mercury Sampling Miami Fort Generating Station North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

- 1. River Intake
- 2. Station 601 (WWT Influent) [Samples were collected at this station one detention time before samples collected at Outfall 608]
- 3. Outfall 608 (WWT Effluent) [Samples were collected at this outfall one detention time after samples collected at station 601]
- 4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, total metal mercury samples were collected from Station 601 and analyzed by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample (duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

Fax: 513.651.3452



Duke Energy - MFS March 15, 2010 Page 2

The results from the March 1 and 2, 2010 sampling event are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner Project Manager

Dennis P. Connair, C.P.G.

Principal

MAW/DPC/Duke Energy-MFS LL Hg 2010 Job No. 14948701

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION NORTH BEND, OHIO

]	Date Sampled /	Results (ng/L, p	arts per trillion	n)	
Sample ID	7/1/09	8/3/09	9/1/09	9/21/09	10/1/09	11/2/09	12/1/09
River Intake	2.3	8.6 B	2.0	NSC	2.3	4.0	1.2
Station 601 (7)	224,000	226,000	NSC	62,400	186,000	NSC	51,400
Station 601 (7)*	NSC	4,600*	58,200*	8,900*	374,000*	NSC	41,300*
Station 601 (7)* [duplicate]	NSC	NSC	NSC	NSC	381,000*	NSC	42,500*
Station 601 (8) Station 601 (8)* Station 601 (8)*[duplicate]	260,000	956,000	NSC	73,000	237,000	576,000	48,600
	NSC	4,800*	172,000*	314,000*	447,000*	124,000*	40,900*
	NSC	NSC	NSC	41,600*	NSC	111,000*	NSC
Outfall 608 Outfall 608 [duplicate]	110	123 B	63.4	57.7	79.2	183	46.5
	108	122 B	62.2	58.2	87.1	342	47.0
APB-002	NC	5.8	2.5	NSC	3.6	4.8	6.2
APB-002 [duplicate]	NC	5.3	2.4	NSC	3.8	4.5	5.6
Field Blank (RI-FB)	<0.50	2.8	<0.50	NSC	<0.50	<0.50	0.5
Field Blank (WWT-FB)	<0.50	1.0	0.72	<0.50	0.89	0.62	<0.50
Field Blank (AP-FB)	NC	<0.50	<0.50	NSC	<0.50	<0.50	<0.50
Trip Blank	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50

Samples collected by URS

Samples analyzed by TestAmerica of North Canton, Ohio

NC - Not Collected. (Ash Pond B Outfall 002 collected quarterly, August and December)

NSC - No Sample Collected [11/2/09 Unit 7 outage]

^{* =} Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]

B = Low-level mercury detected in associated field blank collected at sampling location

TABLE 1 (continued)

		I	Oate Sampled / I	Results (ng/L, p	arts per trillion	1)
mple ID	1/4/10	2/1/10	3/1/10	4/xx/10	5/xx/10	6/xx/10
River Intake	3.9	14.4	2.8			
Station 601 (7)	NSC	350,000	NSC			
Station 601 (7)*	NSC	233,000	NSC			
Station 601 (7)* [duplicate]	NSC	NSC	NSC			
Station 601 (8)	470,000	416,000	291,000			
Station 601 (8)*	8,100*	418,000*	921,000*			
Station 601 (8)*[duplicate]	3,100*	371,000*	688,000*			
Outfall 608	53.0	301	286			
Outfall 608 [duplicate]	41.5	302	282			
APB-002	4.3	3.8	4.3			
APB-002 [duplicate]	6.0	4.1	3.4			
Field Blank (RI-FB)	<0.50	< 0.50	<0.50			
Field Blank (WWT-FB)	< 0.50	< 0.50	< 0.50			
Field Blank (AP-FB)	< 0.50	< 0.50	< 0.50			
Trip Blank	< 0.50	<0.50	< 0.50			

Samples collected by URS

Samples analyzed by TestAmerica of North Canton, Ohio

NSC - No Sample Collected [1/4/10 no flow from Unit 7] [3/1/10 no flow from Unit 7]

^{* =} Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]



ANALYTICAL REPORT

PROJECT NO. 14948701

DUKE MF LLHG

Lot #: A0C030479

Sue Wallace

Duke Energy Corporation PO Box 5385 Cincinnati, OH 45201

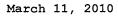
TESTAMERICA LABORATORIES, INC.

Kenneth J. Kuzior

Project Manager

ken.kuzior@testamericainc.com

Approved for release, Kenneth J. Kuzior Project Manager 3/12/2010 10:07 AM





CASE NARRATIVE

A0C030479

The following report contains the analytical results for eleven water samples and one quality control sample submitted to TestAmerica North Canton by Cinergy from the DUKE MF LLHG Site, project number 14948701. The samples were received March 03, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Candance Bonham, Mike Wagner, and Sue Wallace on March 10, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Kenneth J. Kuzior, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 19.4°C, with no coolant present.

See TestAmerica's Cooler Receipt Form for additional information.

METALS

The analytical results met the requirements of the laboratory's QA/QC program.

OUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon-request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit

EXECUTIVE SUMMARY - Detection Highlights

A0C030479

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
601(8)WWT 03/01/10 17:15 001				
Mercury	291000	25000	ng/L	CFR136A 1631E
601(8)WWT TOT 03/01/10 17:20 002				
Mercury	921	20.0	ug/L	SW846 7470A
601(8) WWT TOT DUP 03/01/10 17:25 003	3			
Mercury	688	20.0	ug/L	SW846 7470A
RI 03/01/10 17:55 005				
Mercury	2.8	0.50	ng/L	CFR136A 1631E
608 WWT 03/02/10 07:20 007				
Mercury	286	10.0	ng/L	CFR136A 1631E
608 WWT DUP 03/02/10 07:25 008				
Mercury	282	10.0	ng/L	CFR136A 1631E
OUTFALL 002 03/02/10 07:55 010				
Mercury	4.3	0.50	ng/L	CFR136A 1631E
OUTFALL 002 DUP 03/02/10 08:00 011				
Mercury	3.4	0.50	ng/L	CFR136A 1631E

ANALYTICAL METHODS SUMMARY

A0C030479

PARAMETER		ANALYTICAL METHOD
-	n Liquid Waste (Manual Cold-Vapor) Low Level Mercury, CVA Fluorescence	SW846 7470A CFR136A 1631E
Reference	s:	
CFR136A	"Methods for Organic Chemical Analysis of Industrial Wastewater", 40CFR, Part 136, October 26, 1984 and subsequent revision	Appendix A,
SW846	"Test Methods for Evaluating Solid Waste Methods", Third Edition, November 1986 a	· •

SAMPLE SUMMARY

A0C030479

<u>WO #</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV8XM	001	601(8)WWT	03/01/10	17:15
LV8X3	002	601(8)WWT TOT	03/01/10	17:20
LV8X4	003	601(8)WWT TOT DUP	03/01/10	17:25
LV8X7	004	RI FB	03/01/10	17:45
LV80D	005	RI	03/01/10	17:55
LV80E	006	608 WWT FB	03/02/10	07:15
LV80G	007	608 WWT	03/02/10	07:20
LV80H	800	608 WWT DUP	03/02/10	07:25
LV80K	009	OUTFALL 002 FB	03/02/10	07:50
LV80L	010	OUTFALL 002	03/02/10	07:55
LV80M	011	OUTFALL 002 DUP	03/02/10	08:00
LV80N	012	TRIP BLANK	03/02/10	08:00
MOTE / C	٠, ٠			

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: 601(8)WWT

TOTAL Metals

Lot-Sample #...: A0C030479-001 Matrix.....: WG

Date Sampled...: 03/01/10 17:15 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury 291000 25000 ng/L CFR136A 1631E 03/08-03/09/10 LV8XW1AA

Client Sample ID: 601(8) WWT TOT

TOTAL Metals

Lot-Sample #...: A0C030479-002 Matrix....: WG

Date Sampled...: 03/01/10 17:20 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0063018

Mercury 921 20.0 ug/L SW846 7470A 03/04-03/05/10 LV8X31AA

Client Sample ID: 601(8) WWT TOT DUP

TOTAL Metals

Lot-Sample #...: A0C030479-003

Date Sampled...: 03/01/10 17:25 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Matrix....: WG

Prep Batch #...: 0063018

Mercury 688 20.0 ug/L SW846 7470A 03/04-03/05/10 LV8X41AA

Client Sample ID: RI FB

TOTAL Metals

Lot-Sample #...: A0C030479-004 Matrix.....: WQ

Date Sampled...: 03/01/10 17:45 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury ND 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV8X71AA

Client Sample ID: RI

TOTAL Metals

Lot-Sample #...: A0C030479-005 Matrix....: WG

Date Sampled...: 03/01/10 17:55 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury 2.8 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80D1AA

Client Sample ID: 608 WWT FB

TOTAL Metals

Lot-Sample #...: A0C030479-006 Matrix....: WQ

Date Sampled...: 03/02/10 07:15 Date Received..: 03/03/10

PARAMETER RESULT LIMIT UNITS METHOD PREPARATION- WORK

ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury ND 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80E1AA

Client Sample ID: 608 WWT

TOTAL Metals

Lot-Sample #...: A0C030479-007

Matrix..... WG

Date Sampled...: 03/02/10 07:20 Date Received..: 03/03/10

REPORTING

PREPARATION-

WORK

PARAMETER RESULT

LIMIT UNITS

10.0

METHOD

ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury

286

ng/L

CFR136A 1631E

03/08-03/09/10 LV80G1AA

Client Sample ID: 608 WWT DUP

TOTAL Metals

Lot-Sample #...: A0C030479-008 Matrix....: WG

Date Sampled...: 03/02/10 07:25 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury 282 10.0 ng/L CFR136A 1631E 03/08-03/09/10 LV80H1AA

Client Sample ID: OUTFALL 002 FB

TOTAL Metals

Lot-Sample #...: A0C030479-009 Matrix....: WQ

Date Sampled...: 03/02/10 07:50 Date Received..: 03/03/10

PARAMETER RESULT REPORTING PREPARATION- WORK

UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury ND 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80K1AA

Client Sample ID: OUTFALL 002

TOTAL Metals

Lot-Sample #: A0C030479-010	Matrix:	WG
Date Sampled: 03/02/10 07:55 Date Received: 03/03/10		
REPORTING	PREPARATION-	WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury 4.3 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80L1AA

Client Sample ID: OUTFALL 002 DUP

TOTAL Metals

Lot-Sample #...: A0C030479-011 Matrix.....: WG

Date Sampled...: 03/02/10 08:00 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury 3.4 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80M1AA

Client Sample ID: TRIP BLANK

TOTAL Metals

Lot-Sample #...: A0C030479-012 Matrix.....: WQ

Date Sampled...: 03/02/10 08:00 Date Received..: 03/03/10

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 0067156

Mercury ND 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LV80N1AA



QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0C030479

Matrix..... WATER

REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # MB Lot-Sample #: A0C040000-018 Prep Batch #...: 0063018 SW846 7470A 03/04-03/05/10 LV9JJ1A2 Mercury 0.20 ug/L Dilution Factor: 1 MB Lot-Sample #: A0C080000-156 Prep Batch #...: 0067156 ND 0.50 ng/L CFR136A 1631E 03/08-03/09/10 LWD4N1AA Mercury Dilution Factor: 1

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C030479 Matrix....: WATER

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A0C040000-018 Prep Batch #...: 0063018

Mercury 106 (81 - 123) SW846 7470A 03/04-03/05/10 LV9JJ1CT

Dilution Factor: 1

LCS Lot-Sample#: A0C080000-156 Prep Batch #...: 0067156

Mercury 103 (77 - 125) CFR136A 1631E 03/08-03/09/10 LWD4N1AC

Dilution Factor: 1

NOTE(S):

 $\label{lem:calculations} \textbf{Calculations} \ \text{are performed before rounding to avoid round-off errors in calculated results.}$

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C030479 Matrix....: WATER

Date Sampled...: 03/01/10 15:43 Date Received..: 03/03/10

PERCENT RECOVERY RPD PREPARATION- WORK

PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER #

MS Lot-Sample #: A0C030430-001 Prep Batch #...: 0063018

Mercury 122 (69 - 134) SW846 7470A 03/04-03/05/10 LV8HP1DQ 104 (69 - 134) 16 (0-20) SW846 7470A 03/04-03/05/10 LV8HP1DR

Dilution Factor: 1

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C030479 Matrix..... WG

Date Sampled...: 03/01/10 17:55 Date Received..: 03/03/10

PERCENT RECOVERY RPD PREPARATION- WORK RECOVERY LIMITS RPD LIMITS METHOD PARAMETER ANALYSIS DATE ORDER #

MS Lot-Sample #: A0C030479-005 Prep Batch #...: 0067156

Mercury 104 (71 - 125)

111

Dilution Factor: 5

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C030479

Date Sampled...: 03/02/10 09:00 Date Received..: 03/04/10

PERCENT RECOVERY RPD PREPARATION-WORK PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER # MS Lot-Sample #: A0C040522-004 Prep Batch #...: 0067156 Mercury 93 (71 - 125) CFR136A 1631E 03/08-03/09/10 LWAH91AD 95 (71 - 125) 2.1 (0-24) CFR136A 1631E 03/08-03/09/10 LWAH91AE Dilution Factor: 5

NOTE(S):

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc. 601 (9) WINT TO DA (D) (g) wwt for an HE LEADER IN ENVIRONMENTAL TESTING Samples (D)(8)11/10) * Possible elevoted L of 2 cocs Sample Specific Notes / Special Instructions: ly laver in Analyses Lab Contact: landucil Tatal the | Feephone: > >< ح 2 Other (513) 651-5440 (513) 651-540
Email:
Mithe-Wagner QURSCorgs, com TATI different from belong product зацто səudul N 7 3 2 weeks 3 wooks 1 week 2 days Site Contact:
John Alten HO*N ∕>VuZ DW DRES DRCRA HOAN HCI CONH Suc-Worlece & dula-enuy, Cont. Unknown :1**54**3() pplos Hitz Wagner (URS) tramiba Z (513) 65-1-3440 Brail: τiΑ TestAmerica Laboratory location: Regulatory program: Poison B 0220 0355 0725 25 015 320 我 1725 1355 lient Project Manager: 5/4 Coer, Lo 3/2/10 3/1/10 Skin trritant Posible Hazard Identification

Possible Hazard Identification

Non-Hazard

Tammabie

recial Instructions/QC Requirements & Comments: 401 (8) WMT TON DUS Sample Identification Date Mr LL 194 GOB WWT DUS 651-3440 601 (B) WWT Tot B Jutal 002 FB 1028HH 601(B) WNT 100 WWT TWW 800 RIFB S. F. S13

TAL-0018 (1008)

3/7/10 9:00M

Company:

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Date/Time:

3-02-10

Date/Time:

3-2-10

Date/Time:

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Company:

625

Date/Time:
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Ţ	TestAmerica Laboratory location	cation:	- 1	U. Canton					- -	THE LEADER IN ENVIRONMENTAL TESTING	
Client Contact	negulatory program	ram:		wes	CKA	Other			ı	TestAmerica Laboratories, Inc.	
Company Name:	Client Project Manager:	300) mi	Site Contact:	Site Contact:			Lab Contact:			COC No:	
Address:	Telephone: // 513)651-3440	No.	Teleph	1) 651-34	2	L	Telephone:			Z of Z cocs	·
City/State/Zip:	Email: Al Ke-Wagner	Mile Wagner EUB Corp. WM						Analyses			
Phone: (513) 651-3440	See -Wallage	NO LAND WALL CHANGE CON		۾ ا	elow Standard 3 weeks						
Project Name: Other AF LL H.	Method of Shipment/C	irrier:			2 weeks I week						
Project Number: W\$XS7O)	Shipping/Tracking No:			пп	2 days 1 day		111				
PO#							*/*				-
Sample Identification	Sample Date Sample Time	Time country of the c	Other: H2SO4	ниоз ниоз	ZnAci NaOH Unpres		J 1189			Sample Specific Notes / Special Instructions:	
Dutal 002 Dus		ヹ	-		3	ير رح	7				
	ı	554			7	1	7				
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Posthle Hazard Identification Non-Hazard Telanmable Special Instructions/QC Requirements & Comments:	Skin Irritant Po	Poison B (T) Unk	Unknown	Sample Disposal (A fee may be assessed If samples are retained longer than 1 month) Return to Client [22]. Disposal By Lab Archive For	may be assessed	If samples an posal By Lab	re retained longer	than I month) hive For	Мо	Months	
			•								
Relinquished by:	Company:	03.02-10	1/6	1625 Mus	FB. L			Company:		Date/Time: 1/625	
Religiosphila &	Company	Date/Time:	0/1630		ā by: A	•		Company:		Date/Time:	
Reinquished by:	Company:	Date/Time:		Received/	did Labor prory by:		0	Company:	2	3/3/10 9:001	
62008, TeatAmelos Laboratorios, Inc. Al Injús reservol. TeatAmelos & Design ** po Uzdenshisko if Fest-America Laboratorios, Inc.				J	.·	_	ı	`	:	TAL-0018 (1008)	i.

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TestAmerica Cooler Rec	eipt Form/Narrative	Lot Number: Aoco36	479
North Canton Facility		\	
Client <u>Duke Energy</u> Cooler Received on <u>313</u>	ا Project <u> اندين </u>	int By:	7
Cooler Received on 3/3	10 Opened on 31.	3 (Signature)	
FedEx 🛛 UPS 🗌 DHL 📮 FA	S Stetson Client Drop Off	TestAmerica Courier ☐ Other	
TestAmerica Cooler#(Multiple Coolers Foam Bo	x Client Cooler Other	
 Were custody seals on the or 	outside of the cooler(s)? Yes 💢 No 🛚	☐ Intact? Yes ☑ No ☐ NA	
If YES, Quantity	Quantity Unsalvageable		
	outside of cooler(s) signed and dated?	Yes 🖄 No 🗍 NA	
Were custody seals on the b		Yes ☐ No ⊠	
If YES, are there any except		···	
2. Shippers' packing slip attach		Yes ⊠ No 🔲	<i>-</i>
	any the sample(s)? Yes ⊠ No □	Relinquished by client? Yes	☑ No □
	med in the appropriate place?	Yes ⊠ No 🗀	٠
5. Packing material used: Bul	bble Wrap 🔼 , Foam 🔼 None 🗀		
6. Cooler temperature upon rec		orm for multiple coolers/temps	
METHOD: IR	Other		
COOLANT: Wet Ice	· · · · · · · · · · · · · · · · · · ·	□ None ⊠	,
7. Did all bottles arrive in good		Yes No 🗆	\bigcirc
8. Could all bottle labels be rec		Yes ⊠ No ☐ NA	
9. Were sample(s) at the correct			
10. Were correct bottle(s) used f		Yes No 🗆	71
11. Were air bubbles >6 mm in a		Yes No NA	د د
12. Sufficient quantity received t		Yes ⊠ No ☐ VOAs on the COC? Yes ☐ No [<u>√</u> Ω
		e VOAs on the COĆ? Yes ☐ No [via Verbal ☐ Voice Mail ☐	_
Contacted PM Concerning	Date by	Via Verbai [] Voice Maii []	
14. CHAIN OF CUSTODY			
The following discrepancies occu	ured.		
The following discrepandies occur	FIGHTE ON GOLLH	G, + for motal wat	
·	1191 TIMP UN 181 LUAT	S, & IN MOTEL WAT	ors.
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The second secon		·	
			<u> </u>
15. SAMPLE CONDITION			
Sample(s)	were received after	er the recommended holding time had	expired.
Sample(s)		were received in a broken c	ontainer.
Sample(s)	were receive	ed with bubble >6 mm in diameter. (N	otify PM)
16. SAMPLE PRESERVATION			
Sample(s)		were further preserved in Sample	
	d pH level(s). Nitric Acid Lot# 121709-HN		dium
	drochloric Acid Lot# 092006-HCl; Sodium H	ydroxide and Zinc Acetate Lot# 100108-	
	was preservative added to sample(s)?		1 . 147 1
Client ID	, , , pH	Date	Initials
601(8)NWT "	44	3310	(M)
L Dip	<u> </u>	<u> </u>	
	• ·		

Client ID	lity <u>pH</u> ~	Date	initial
Client ID	<u>pH</u>	Date	<u> </u>
			
		<u> </u>	
		<u> </u>	
			-

			ļ
Cooler#	Temp. °C	Method	Coolar
)	•	
	·		
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	The state of the s	TANDA - OTT - OTT -	
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prepandles Cont'd:		TANDA - OTT - OTT -	
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prepandles Cont'd:		TANDA - OTT - OTT -	
prepandles Cont'd:		TANDA - OTT - OTT -	
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END OF REPORT